

Nuclear Division employees earn '77 safety honors



SAFETY PERFORMANCE LAUDED—Alec Flamm, senior vice president of Union Carbide Corporation, praises Nuclear Division employees for their performance in 1977 where they enjoyed the second best safety history, and the corporation saw its best. From left are Herman Postma, ORNL director; Paul R. Vanstrum, vice president of the Nuclear Division; Robert J. Hart, manager of the Oak Ridge Operations of the Department of Energy; Flamm; Charles A. Keller, assistant manager for operations, ORO; Charles J. Parks, vice president of the Nuclear Division; and Clayton D. Zerby, Paducah Plant manager. Flamm presented corporation plaques to the individual plant managers; Roger F. Hibbs, president of the Nuclear Division, gave out the National Safety Council honors; and Hart gave plaques from DOE.

Best year in UCC's 60-year history

The entire Nuclear Division was recognized last week for its safe performance of work during 1977. The annual safety awards luncheon was held in Oak Ridge honoring the safe performance of each employee.

Alec Flamm, senior vice president of Union Carbide Corporation; Robert J. Hart, manager of the Oak Ridge Operations of the Department of Energy; and Roger F. Hibbs, president of the Nuclear Division, presented awards for the Corporation, DOE and the National Safety Council, respectively.

UCC's Distinguished Safety Performance Award, the Corporation's highest recognition, went to ORGDP, ORNL and the Y-12 Plant. ORGDP earned the award for its 200-day period, 6,503,864 employee-hours, without a lost-time injury last year. The 250-day period of 5,540,797 hours earned ORNL the award; and Y-12 picked up the highest award for a 319-day period for 9,969,664 employee-hours worked without a disabling injury.

Best Corporate year

"1977 saw the lowest accident rate for the Corporation in its 60-year history," Flamm said. "The frequency rate was .67, as compared to a 10.87 for all of U.S. industry." (Frequency rate is defined as the number of injuries for every million employee-hours worked.)

Flamm also pointed out that the "protection of life and health of its employees as a prime responsibility" is part of Union Carbide's charter.

DOE's Award of Excellence went to Y-12; as ORGDP and ORNL earned the Awards of Achievement. The DOE recognition is based on the reduction of lost-time injuries during the year, as compared to previous

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NUCLEAR DIVISION NEWS

a newspaper for employees of the nuclear division • union carbide corporation

Vol. 9/No. 17

August 17, 1978

Paducah cited for saving fellow employee's life

Ralph Sawyer, Joyce F. Sims and Beach P. Jones have been recognized by the National Safety Council for their efforts in the resuscitation of Roy Collins on April 11, at the Paducah Plant.

Collins, a supervisor in the Power, Utilities and Chemical Division, suffered a heart attack while climbing a stairway at the plant. Sawyer, Sims and Jones were with him at the time. Upon finding no pulse or signs of breathing, Sawyer began to administer cardiopulmonary resuscitation (CPR) while Sims and Jones summoned help.

After contacting plant authorities, Sims assisted Sawyer in continuing

CPR until they were relieved by members of the plant emergency squad and Dr. James E. Phillips, plant physician. Collins was transported to a Paducah hospital.

Collins' life was saved, in the judgment of the physicians involved, by the combined actions of Sawyer, Sims, Jones and the plant emergency squad. A letter of commendation from the plant manager was presented to the participants for their "heroic life-saving conduct."

Sawyer was awarded the President's Medal by the National Safety Council for "successful resuscitation by approved manual

methods." It is the NSC's only award for the saving of a human life.

Sawyer also received a certificate from the NSC for his "performance of CPR and the mouth-to-mouth method of resuscitation."

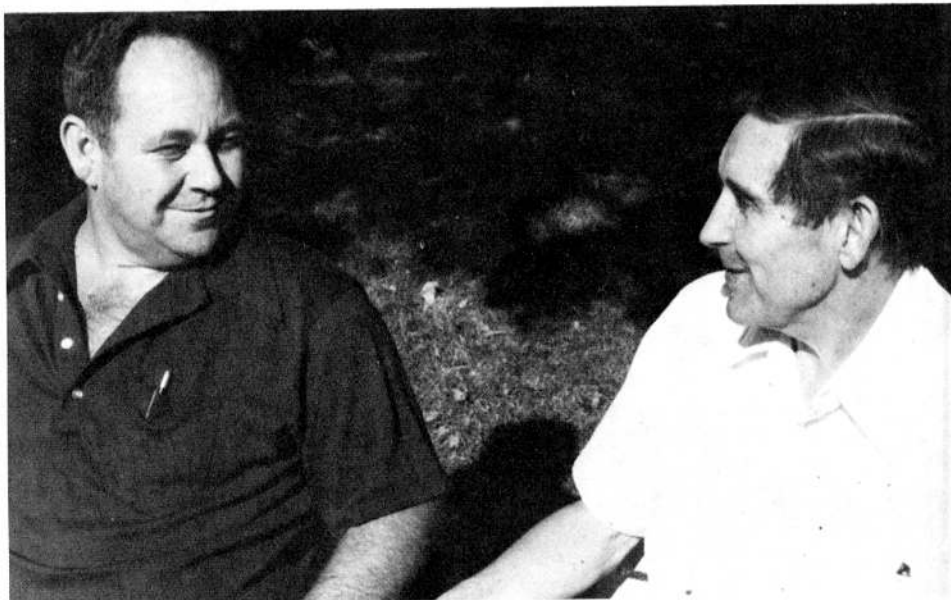
Sims received a certificate from the council commending her performance of "meritorious service in helping to save human life from death by suspension of normal breathing by the heart massage method of resuscitation."

Jones received a similar certificate for his efforts in helping to save a human life by the "summoning of medical assistance."

5514-4

245th dividend set

The board of directors of Union Carbide has declared the corporation's 245th consecutive dividend in the amount of 70¢, payable on outstanding capital stock, payable September 1. The last quarterly dividend was also 70¢ payable June 1.



CONGRATULATIONS—Plant Manager Clayton D. Zerby congratulates, from left, Ralph Sawyer, Joyce Sims and Beach Jones on their National Safety Council awards for the resuscitation of Roy Collins in April. Sawyer, a resident of Mayfield, Ky., along with Sims and Jones of Paducah, are operators in the Paducah Plant's Power, Utilities and Chemicals Division.



HOPEFUL OUTLOOK—Roy Collins, right, has hopes of returning to work in the future, after being administered life-saving aid during a heart attack suffered on the job. Ralph Sawyer, left, immediately responded to the victim's needs. "It was my lucky day," Collins said of the incident, "and I'll always be grateful to those who helped."

Accidental spills must be reported. . .

It may come as a surprise to some people, but the law requires notification of an appropriate agency of the United States Government when there is knowledge of any spill of oil or certain specified quantities of hazardous substances into surface streams.

Robert G. Jordan of the Nuclear Division's Health, Safety, and Environmental Protection Office says, "It is Union Carbide's policy to protect the environment and comply with all regulations. Reporting procedures have been established at all Nuclear Division facilities for notifying the proper federal agencies when spills occur."

Jordan said that the Federal Water Pollution Control Act is being enforced vigorously across the country. "Our ultimate goal is to prevent spills from occurring," he said. "As the law now stands, our responsibility is to contain a spill, recover it if possible, and report it immediately to the proper agencies."

Prevention if possible

One of the most frequent questions received by Jordan is: "What constitutes a reportable spill?" The Environmental Protection Agency has indicated that any size oil spill into or upon navigable waters in harmful quantities must be reported. "Harmful quantities" for oil are defined as discharges which: (a) violate applicable water quality standards, or (b) cause a film or sheen upon or discoloration of the surface of the water or adjoining shorelines or cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines."

The law has been broadly interpreted and there are some questions yet to be resolved about reportable quantities of hazardous substances. The Nuclear Division has taken the position that all spills of

hazardous substances should be reported.

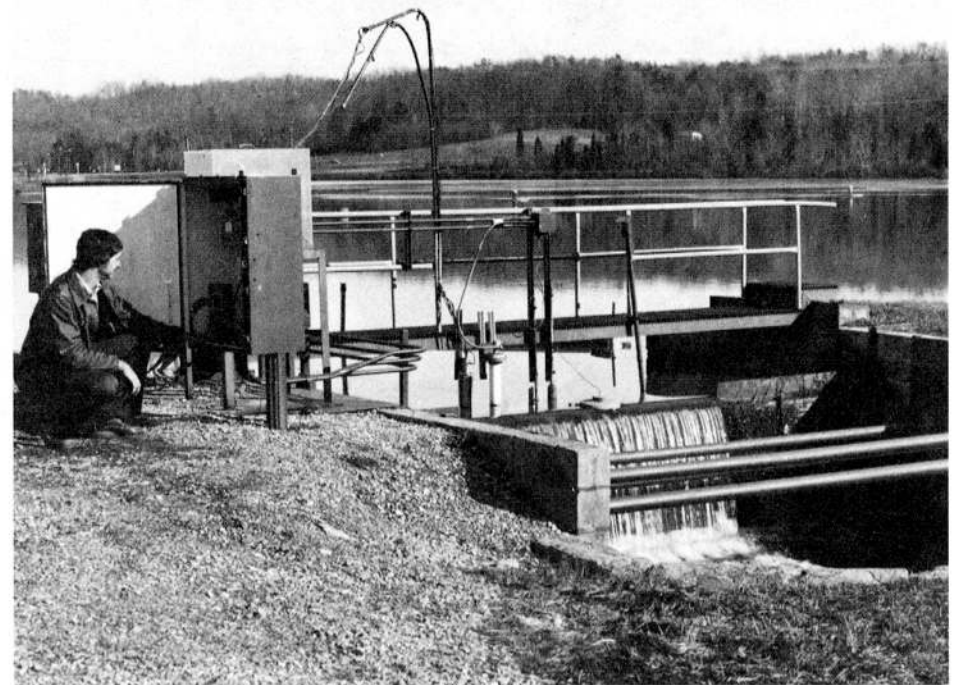
Immediate action

Immediate action is necessary when a spill is discovered. The first steps should be to stop the spill at the source if possible and do anything that can reasonably be accomplished to prevent the spill from reaching a waterway. The next step is to notify the plant shift superintendent or Laboratory shift supervisor just as soon as possible.

"Union Carbide recognizes its responsibility to protect the environment," Jordan said, "but this responsibility must be shared by every employee. By promptly taking the action necessary to prevent, contain, and report spills, 'employees can protect themselves, the company, and the environment—which is our common goal.'"

Energy tips. . .

Install a flow restrictor in your shower. It's easy to install and saves water by restricting the flow to three or four gallons per minute, which is very adequate for showering. Using more hot water than you need really wastes energy and money.



Tommy Bowers inspects monitoring instruments



Canadian geese enjoy clean waters around ORGDP

Corporate world of Union Carbide

AN AGREEMENT with Manufacturers Hanover Trust Company to sell the Union Carbide building and land at 270 Park Avenue has been reached. The purchase price is \$110 million, payable over 30 years. The after-tax gain to Union Carbide is estimated to be \$49 million. This gain will be recognized in the year the closing takes place, which is anticipated to be 1980. The gain will be partially offset by Union Carbide's headquarters relocation expense.

Union Carbide has already announced intentions to relocate in Danbury, Conn., beginning in late 1979. The move will be phased over approximately a two-year period.

Union Carbide Corporation has announced the start-up of the new air separation plant it has constructed in Fife, Wash., a suburb of Tacoma, to meet the growing demand for liquefied gases in the Pacific Northwest.

The new facility, constructed at a cost in excess of \$8 million, has the capacity to produce a total of 260 tons per day of liquid oxygen, liquid nitrogen, and liquid argon. It will be operated by the corporation's Linde Division.

Oxygen is used to improve the efficiency of energy systems in metallurgical processes, to enrich the air supplied for combustion of fuels in foundry cupolas and other types of furnaces, in advanced wastewater treatment and solid waste

disposal/resource recovery systems, and for a variety of medical applications. Nitrogen is used instead of natural gas to provide pure atmospheres in electronics manufacturing and as a liquid refrigerant in food freezing and other low temperature applications. Argon is used extensively in gas-shielded electric welding, in metal fabricating, and in refining stainless steel.



Containment and recovery techniques in simulated spill

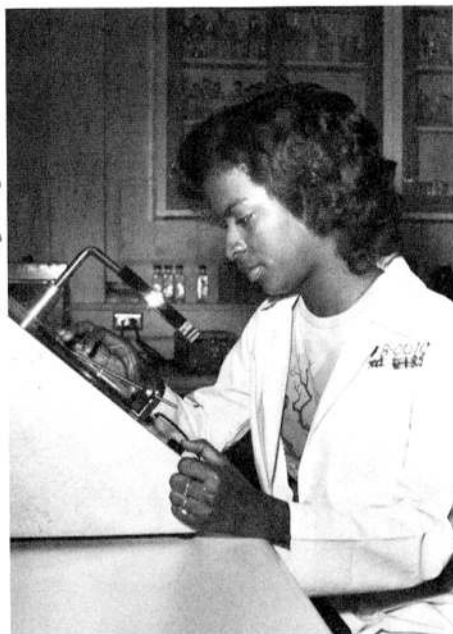
Undergraduates participating in biomedical summer program

Ten undergraduate students from eight predominantly black colleges and universities are participating in a 10-week summer training program at the University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences, under a program supported by a grant from the Carnegie Corporation of New York. The Biomedical School is located within ORNL's Biology Division.

The Carnegie Summer Program provides selected black undergraduate students with exposure to a wide range of biomedical research in an effort to encourage their entry into the field of biomedical sciences. The program is directed by Franklin D. Hamilton, associate professor of biomedical sciences at the University of Tennessee and a consultant to the Biology Division.

Students participating in this summer's Carnegie Program include Robert Baker, Florida A&M University; Vijira de Silva, Bennett College; Darryl Jenkins, Livingstone College; Alfred Johnson, Albany State College; Robin Jones, Douglass College; Blanche Lowry, Tougaloo College; Eric Quivers and George Thomas, Morehouse College; and Beverly Townsend and Alice Walker, Jackson State University.

Four faculty members are also participating in this year's program, conducting research projects at ORNL. They are Lynette Padmore and Antaraguttu Shetty, Florida A&M University; Somashekhar Munavalli, Livingstone College; and Vijaya Melnick, University of the District of Columbia.



BIOMEDICAL TRAINEE—One of 10 undergraduate students participating in this year's Carnegie Program is Blanche Lowry, a student at Tougaloo (Miss.) College. A biology major, Lowry is working during the summer with Frank Larimer in the Biology Division's comparative mutagenesis group.

McGill, Kimmet, Underwood promoted

Three promotions have been announced at ORGDP. Robert M. McGill has been named a senior consultant on the staff of the Technical Division, Stanley G. Kimmet Jr. will head the new Budget and Accounting Office for the Separation Systems Division, and James M. Underwood has been named cascade supervisor in the Operations Division.

McGill, who will handle special technical assignments, primarily in connection with technology of uranium enrichment processes, joined Union Carbide 29 years ago. A native of Marianna, Ark., McGill received BS and MS degrees in chemical engineering and physical chemistry, respectively, from the University of Arkansas and his PhD in physical chemistry from the University of Tennessee.

He lives at 107 Greenbriar Lane, Oak Ridge.

Kimmet, a native of Watertown, N.Y., joined Union Carbide two years ago in SSD's Technical Studies and Program Planning Department. He received a BS degree in accounting from Syracuse University.

Kimmet and his wife, Deede, have three children, Wendy Jeanne, Cynthia Marie and Stanley III. They live at 1737 Grenada Boulevard, Knoxville.

Underwood joined Union Carbide two years ago. He has been an operator and PEM coordinator.

He and his wife, Suzanne, live at 4819 Elder Road, Knoxville.



Kimmet



Underwood

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PADUCAH

Darlene McPherson, Bell 208



Member,
INTERNATIONAL
ASSOCIATION
OF BUSINESS
COMMUNICATORS

Bailey, Harding named to Engineering positions

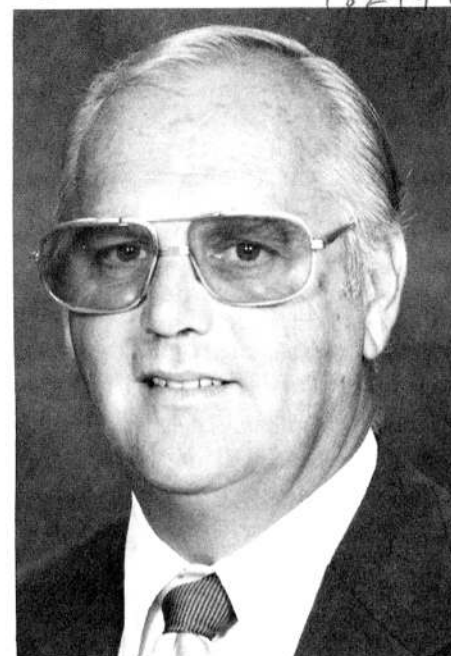
The Engineering Division at Y-12 has announced organizational changes. Harry L. Bailey has been named Y-12 engineering site manager and John E. Harding has been made manager of the Y-12 senior engineering staff.

Bailey, a native of Knoxville, holds a BS in mechanical engineering from the University of Tennessee and has done graduate work there in industrial management. He joined Union Carbide in 1947, working first as an Assembly Department superintendent, later transferring to the Y-12 engineering senior staff.

Mrs. Bailey is the former Marian Dodge, and the couple lives at 6719 Cochise Drive, Knoxville. They have four sons, Mark, Harry, Jefferey and Kevin.

Harding joined Y-12 in 1946, working as an engineer in the electromagnetic process. He served in the U.S. Army Corps of Engineers at Y-12 during World War II, then worked in 9212 processing, Mechanical Operations, and lately as department head of the Maintenance Administrative Services Department. A native of New Castle, Ind., he holds a civil engineering degree from the University of Cincinnati and has done graduate work in industrial engineering at the University of Tennessee. He is a licensed professional engineer, and is a past officer in the American Institute of Industrial Engineers.

He and his wife, the former Charlotte Thompson, live at 108 Dana Drive, Oak Ridge. They have a son, John T., and a daughter, Susan Craft.



Harry L. Bailey



John E. Harding

Next issue...

The next issue will be dated August 31. The deadline is August 23.

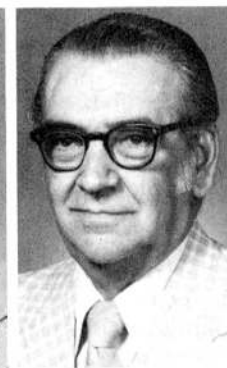
retirements...



Ed Grindstaff
Buildings, Grounds
Maintenance, Y-12
10 years service



Virginia L. Roisum
Gaseous Diffusion
Development, ORGDP
27 years service



Roy E. Watson
ORGDP Maintenance
33 years service



Marie Tilley
Y-12 Chemical Services
27 years service



Frank Zupan
Plant and Equipment
ORNL
22 years service



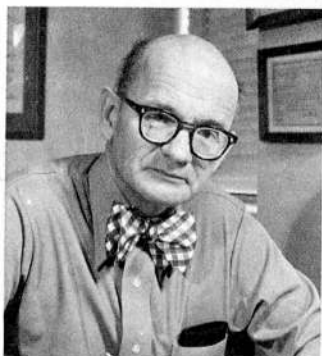
Arthur M. Sherman
Paducah
Electrical Department
27 years service

wanted...

ORNL

CARPOOL MEMBER from Landmark, Gulf Park, Middlebrook Pike area, Knoxville, to East Portal, straight days 8:15-4:45. Nancy Hennon, plan. phone 3-1421, home phone 690-2088.

RIDE ONLY from Lovell Road, West Knoxville area, to East Portal, straight days. Cindy Cook, plant phone 3-1495, home phone 966-5031.



Smoking 'allergies'

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," **NUCLEAR DIVISION NEWS**, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

QUESTION: "My boss smokes, I don't. When he's in the office the greater part of day, I have a very bad problem with watering eyes and headache by afternoon. This makes working and concentrating very difficult. Don't people realize how smoking affects the non-smoker? Physically speaking, what does this do to me?"

'Don't people realize how smoking affects the non-smoker?'

ANSWER: When people breathe "mainstream" smoke exhaled by smokers and "sidestream" smoke which leaves the burning ends of cigarettes between puffs, they are considered to be "passive" smokers. How much they inhale depends on how many smokers are in a room, the nearness of the nonsmoker to the smoker, the ventilation available for the removal or dispersion of the smoke and, finally, how long they are in the room. The discomfort or health hazard depends at least partially on the health status of the nonsmoker.

Dr. Carl Becker, a Cornell Medical Center professor of pathology, is reported to believe that almost one-third of people have some "allergy" to tobacco. The scientific information on which this claim is based is not available to me at this time, but one wonders whether part of the "allergy" may actually be a special sensitivity to the known irritating effects of tobacco smoke. In any case, many people find sitting in a smoke-filled room extremely unpleasant.

In a recent article in the **New England Journal of Medicine**, Dr. Wilbert Aronow of the Long Beach, Calif., VA Hospital measured the effect of passive smoking on 10 men who had severe coronary-artery disease. Each of them had more than a 75 percent narrowing of at least one major coronary artery. Eight were ex-smokers, and two had not smoked for 16 hours before the experiment was conducted.

Each subject was exercised in a 10 x 11-foot room on a bicycle ergometer until he developed chest pain due to his heart disease. The smoke was provided by three smokers who each smoked five cigarettes during a two-hour period. The subject breathed the polluted room air during this time and then was tested. The time required before the pain developed was 38 percent shorter when the room was not ventilated and 22 percent shorter when the room was

well ventilated. The amount of carbon monoxide in the blood was almost double what it had been when there was no smoke in the room.

The earlier onset of pain was probably due to a combination of the effects of the nicotine, carbon monoxide, oxides of nitrogen and hydrogen cyanide absorbed from the smoke. Of these, nicotine was probably most important.

Long-term health effects of chronically inhaling a small amount of tobacco smoke are probably too small to be detected. People who are regularly and heavily exposed in small rooms with no ventilation may have reason for concern. Nevertheless, compared to the effects of actually smoking cigarettes, the risk must be relatively small.

The nuisance and irritation to the eyes and respiratory tract and the possible health hazards have caused some people to get extremely upset. A lawsuit was filed about a year ago by several non-smoking federal employees in Washington, D.C., who sought protection from ambient tobacco smoke on the job. It was dismissed because the federal judge held that employees could not rely on the U.S. Constitution or the Occupational Safety and Health Act for relief from the effects of other people smoking on the job.

...a woman was arrested because she refused to extinguish her cigarette.'

A no-smoking statute in Dade County, Fla., was challenged by a woman who was arrested because she refused to extinguish her cigarette in a grocery store. The judge upheld the statute, but the proceeding was dismissed on a technical point.

Your solution may be to try to find another job where your boss doesn't smoke. Some companies have banned smoking at work, but it has been primarily because smoking is known to greatly increase the hazards of exposure to several toxic materials in the workplace. You probably cannot claim such a hazard in your workplace.

Maybe to get his attention you might seek a respirator from your plant's industrial hygiene department. By your wearing it when he smokes, your boss might get the message! On the other hand, he might get angry. Tears plus education are probably your most effective weapons!

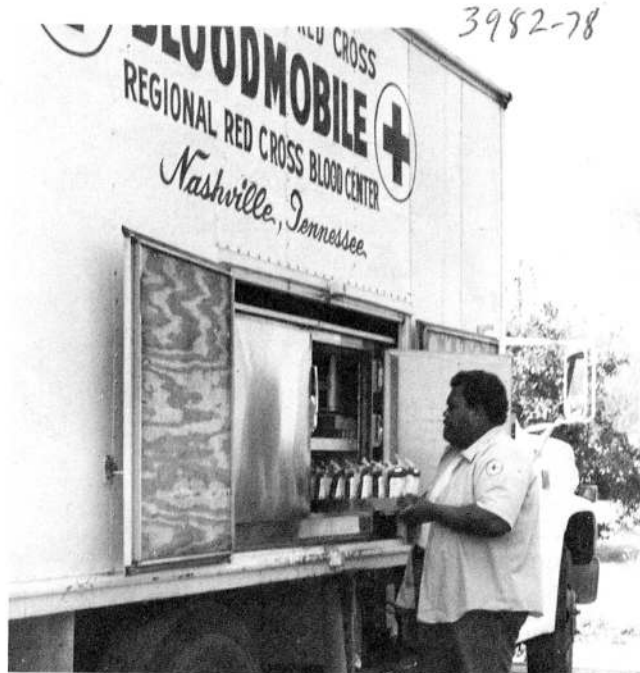


This will only take a minute



More than 300 first-time Red Cross donors contributed during ORNL's Red Cross Blood Drive, held August 2 and 3, as part of Oak Ridge's first in-plant Nuclear Division Blood Drive. Nuclear Division employees surpassed the 350-unit goal by 123 units of blood.

Grover Cain, Laboratory shift superintendent and co-chairman of the drive, said, "On Wednesday, we didn't have an empty bed from the time we started until the time we quit."

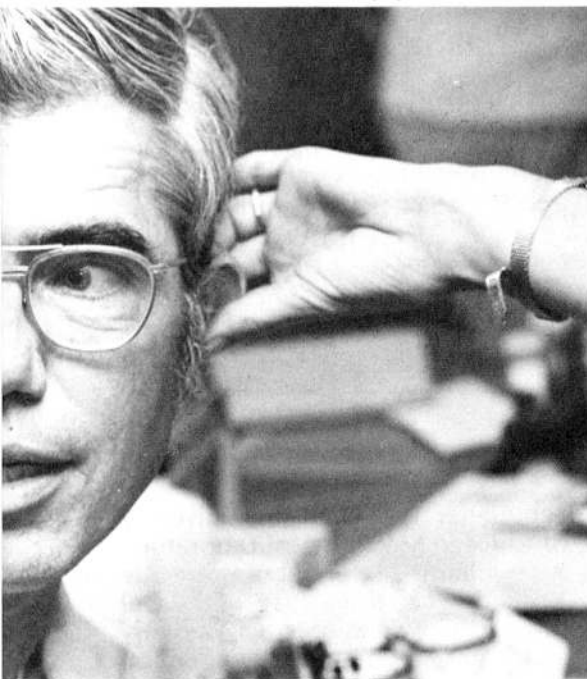




minute. . . 3966-78



3959-78



3983-78



question box. . .

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Park employees

QUESTION: How come the retired Carbide employees at Clark Center Park were fired and school teachers hired in their place?

ANSWER: The so-called Pension Reform Act (ERISA) established stringent rules governing participation in, and service accrual for, pension plans. Because of the potential impact of these rules on those already receiving pensions from the corporation, persons other than retirees have been employed for the seasonal positions at Clark Center Park.

Supplemental insurance

QUESTION: Why do the premiums on supplemental insurance jump so high at age 55, as compared to basic insurance? Why can't the Corporation negotiate a better premium? The supplemental insurance rate for age 55-59 increases by a factor of almost three. Similar term insurance (American Chemical Society) increases only 33 percent.

ANSWER: The rate for basic insurance is based on the average age of all Union Carbide Corporation employees from age 18 to 65, and the Company pays at least half of the cost. The supplemental insurance rates are based on the average age for 3 different age brackets: age 18 through 39; 40 through 54; and 55 to 65.

The insurance company arrives at term insurance rates on the basis of the life expectancy of the people in these age groups. The younger people have a longer life expectancy and a lower mortality rate. The older

people have a shorter life expectancy and a higher mortality rate.

The table below shows how UCC group supplemental rates compare with individual term insurance rates when purchased privately.

Monthly Cost per \$1,000 of Insurance

Age	UCC Group Rate	Individual Rate
30	.20	.29
45	.55	.67
60	1.55	2.19

Hiring policies

QUESTION: Several of my friends, all well qualified non-minorities, were recently told that the Nuclear Division had no job openings in their fields (which ranged from clerical to professional). Meanwhile, I saw a letter to Y-12 Plant management which stated that the Y-12 Plant during the last eight months has hired a total of 56 persons, 54 of whom were minorities and 56 women. Isn't this discrimination? How many better qualified people were passed over to supply these jobs to minorities?

ANSWER: Figures taken out of context can be misleading. It is true that during the last eight months, the Y-12 Plant has experienced a net increase of 54 minorities and 56 women while the total net increase in employment has been only 56. During these same eight months, the Y-12 Plant **added** 291 persons of whom 231 (approximately 80%) were white and 196 (67%) were male. Because of attrition (through retirement and other reasons for separation), the net increase is always considerably lower than the number of people transferred in and hired from the outside. The 20 percent minority segment of the employees added to Y-12 was not less qualified than applicants who were not hired. Even if no minorities or women had been hired for the available openings, there would still have been many qualified white male applicants who would not have been hired. We receive 10 to 15 times as many applications as we have openings.

8 or 8:15 shift. David Kaseran, plant phone 3-0436; home phone 693-2326.

VAN POOL RIDERS from West Knoxville, I-40, Papermill Road exit area, 8:15-4:45. Ray Pearson, plant phone 3-1805, home phone 588-9949.

RIDE WANTED from West Town Estates or Francis Road, Knoxville, to East Portal, straight days. Brad Weil, plant phone 3-0448, home phone 693-7503.

wanted. . .

Y-12 PLANT

JOIN CAR POOL from vicinity of Alger Road, Oak Ridge, to West Portal, straight day. J. C. Rogers, plant phone 3-5445, home phone Oak Ridge 482-2891.

JOIN CAR POOL from Oak Ridge Highway, Cumberland Estates area, to West Portal, straight day. Betty Queen, extension 3-7182.

RIDE from Fountain City area, to North Portal, straight day. Judy Adams, plant phone 3-5473, home phone Knoxville 688-7834.

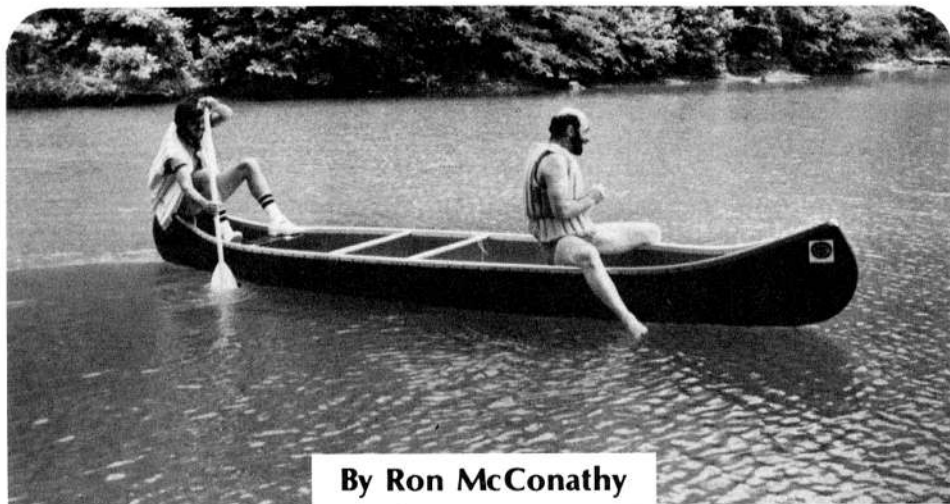
ORNL

JOIN or FORM CAR POOL from Bexhill Subdivision, area off Ebenezer Road west of Knoxville, to East Portal,

safety scoreboard

Time worked without a lost-time accident through August 10:

Paducah	384 Days	4,146,000 Man-Hours
ORGDG	126 Days	4,146,400 Man-Hours
Y-12 Plant	120 Days	3,824,000 Man-Hours
ORNL	207 Days	4,905,550 Man-Hours



By Ron McConathy

May through August is the prime time for water sports. It's also the time when 67 percent of the drownings in the U.S. occur. The National Safety Council reports that the monthly average during this period is 10 times greater than in any other month.

The Council reported an annual average of 7,877 drownings for the past five years. Not surprisingly, it is the third-ranked cause of accidental deaths in the U.S., and for the 1-to 44-year age group, it is second only to automobile accident fatalities.

The following statistics—from the Metropolitan Life Insurance Co. *Statistical Bulletin* magazine—give a percentage breakdown of the activities involved in at the time of drowning:

ACTIVITY AT TIME OF DROWNING	PERCENTAGE OF TOTAL DROWNINGS
Playing or walking near the water	26%
Swimming	25%
Wading or bathing	12%
Fishing from the boat	7%
Boating	7%
Motor vehicle occupant	7%
Playing on a floating support (tube, raft, etc.)	3%
Attempting to rescue another	3%
Hunting, scuba diving, surfing and skin diving	3%
Other	7%

About three-fourths of the swimming and wading related drownings occurred at unorganized, unguarded facilities. Inability to swim was a factor in 28 percent of the drownings, and at least half of the victims did not intend to get wet. Exhaustion and cramps accounted for most of the swimming fatalities.

Playmates, companions and family were usually the first to discover a drowning had occurred, and in 7 of 10 cases no effort was made to revive the victim. If more people were trained in basic resuscitation techniques, many of these victims could have received prompt attention that might have saved a life. Lifesaving and swimming training is available free from the American Red Cross, American Heart Association, YMCA or YWCA.

A total of 93 drownings was reported in 1976-77 at TVA lakes. Of that total, over half were swimming and wading related, and 40 percent occurred while boating. Many of the swimming and wading related drownings occurred because the victim was too far from rescuers or those nearby did not know how to help. Nationally, 75 percent of drownings occur within 25 feet of someone who could have helped the victim.

For the past few years, I have been using newspaper accounts of drowning accidents in East Tennessee to compile information on the factors applicable to our immediate area. These accounts often leave out details about factors contributing to the drowning; thus the information is not complete. Still, the data allow for evaluation and comparison with national statistics.

Swimming and wading activities account for about 55 percent of East Tennessee drownings. Last summer, 60 percent of the drowning victims were people wading in shallow water. These people walked into a drop-off or currents swept them into deep water. Most of the victims could not swim.

Non-swimmers also drown every year when they ride a floating support into deep water where they fall off or the float sinks. Non-swimmers and poor swimmers should never rely on floating supports in deep water, or wade where they are unfamiliar with the bottom contours. Children should never wade at an unguarded beach without a lookout equipped with life saving equipment.

In our area, 10 percent of the drownings were due to people attempting a swimming rescue of a drowning victim. . .three times the national average. This has already happened twice this spring. A swimming rescue without the aid of a floating support, or an object to extend to the victim, is extremely hazardous to the rescuer. This type of rescue should only be attempted by a trained lifesaver physically able to complete the rescue.

Many people are physically soft after a winter of swimming inactivity and may attempt too much. When boating on cold water, wearing a personal flotation device may make the difference between drowning and making it to safety if you accidentally find yourself in the water. Each year, cold water and overextending physical abilities combine to account for one-fifth of the region's swimming-related drownings.

Other factors contributing to swimming drownings (especially children) were strong currents and swimming alone. Safe swimming requires the use of common sense, learning to handle yourself in the water, respecting your physical limitations and swimming where supervision or lifeguards are available.

Statistics are only useful if we use the story they tell to change personal habits. Enjoy yourself in the water and be safety conscious this summer.

recreationotes . . .

Golf Tournaments. . .

Y-12. . .

Y-12 played its July tournament at Southwest Point, with W. Gollhofer taking low score with a 75. Jim Vance followed with a 77. Handicap lows went to B. Reagan and J. Hamilton, each with 78; and J. Anthony and E. Crowder, with 79 each.

Division Two went to G. Cozart, 82; and Ed Sise, 84. Handicap winners were J. Greer, 84; and J. Parker, 89.

Division Three saw a tie with K. Campbell and K. Thompson firing 90's; R. Hopson, C. Nelson and J. McCormick, all with 92. Handicap honors went to R. Ray, 106; Curt Ridings, 93; and B. Hamby, 95.

Y-12 winners may pick up their golf balls in Building 9711-5.

ORNL. . .

Dead Horse Lake was the scene for ORNL's July tournament, as J. Rowell Jr. took a one-over-par score of 73. R. Walker placed second with 75. In handicap count it was K. Turnage, 74; and J. Deatherage, 76.

Division Two went to W. Burch and M. Shearin, each with 82; and E. Rawlings, 83. Bob DeBakker's 83 was low in handicap scoring, and J. Teage fired an 84.

Division Three belongs to R. Pawel, 86; and R. Livesey, 88. Handicap laurels went to D. Newman, 93; and T. Cagley and J. Womac, with 100 and 101 respectively.

Winners may pick up their golf balls in Room J-108, Building 4500N.

ORGDP. . .

The Family YMCA tournament, held for ORGDP duffers, went to E. Strunk with an even par score. He was followed by E. Arnold with a 75. Handicap winners in Division One were D. Byrd, 76; G. Bird and C. Hale, each with 78.

In Class Two, it was M. McGaha with 78; G. Borough, 86. Handicap lows went to G. McFarland, 84; B. Hall and D. Kerley, 89 each.

Division Three belonged to L. Walker, 93; and W. Goodwin, 95. In handicap firing it was J. Chiang, 100; Ray Rinehart, 101.

Winners make pick up their loot from Peggy Collier, Room C-136, K-1001.

Winter bowling. . .

Oak Ridge bowlers wishing to participate in winter bowling leagues should call the Recreation Office, 3-5833. There are men's, women's and mixed leagues. Anyone interested in joining a league or forming a new team, just call.

Chemical Services picnic

Y-12's Chemical Services has set its annual picnic at Cove Lane, Saturday, September 2. Activities begin at 4 p.m., with a picnic supper at 5.

Attendees are requested to bring their picnic and supplies, and all retired members of the division are cordially invited.



'La Mancha' cast

Among Union Carbide employees who will stage "Man of La Mancha" are those seen here. Seated, from left, are Bill Thiessen, Tom Gentry and Glenn Bridges. Standing are Gordon Warner, Charles Crume, Wayne Houlberg, Allan Mense and Ken Dale. The musical will be performed at the Oak Ridge Playhouse August 17, 18, 19, 24, 25 and 26 at 8:20 p.m.

anniversaries . . .



Hutto

Levy

Edwin L. Hutto, a design engineer in the Engineering Division, joined Clinton Laboratories on September 9, 1943. He initially worked on design of the Graphite Reactor and is currently involved with tool design for the High Flux Isotope Reactor at ORNL. He and his wife, Helen, live at 104 Palmetto, Oak Ridge. They have two children, Amelia and Edwin Jr.

Henri A. Levy, senior research staff member in the Chemistry Division, began his company service on

September 1, 1943, at the University of Chicago Metallurgical Laboratory. After joining Clinton Laboratories, he worked with their first high-level radioactivity chemistry laboratory and later with ORNL's chemical crystallography program. He and his wife, Bettie, live at 116 Meadow Road, Oak Ridge. They have two children, Janet and David.

30 YEARS

Glen G. Underwood, Instrumentation and Controls; Arlene H. Kibbey, Chemical Technology; Calvin E. Lamb, Chemical Technology; Richard L. Lines, Operations; Paulus S. Lee, Quality Assurance and Inspection; Clyde R. Smith, Plant and Equipment; Edwin F. Phares, Biology; Jerry H. Goode, Chemical Technology; and William D. Gude, Biology.

25 YEARS

Edward M. Elliott, William O. Wells, Ray Burns and Emerson H. Guinn.

(See next page)

Golf Leagues...

Southwest Point...

The Southwest Point Golf League has completed its play and E. T. Strunk and J. A. Duff won first place with a total of 42 wins and 18 losses. Second place went to Gene Lewis and Roland Stone with 36 wins and 24 losses. Jack Williams and Bill Briscoe won third place with 35 wins and 25 losses. Congratulations!

Carbide bowling...

Western Plaza Mixed...

The Rackers are leading the Western Plaza League by two points. The Hard Times are second; and the Four Eagles are third. Cheryl Womack and Renchel Lowery continue to hold their lead on high series for men and women.

Family Mixed...

The Smooth Stokers lead the Carbide Family Mixed over the Turkeys by 1-1/2 points. The Road Runners are in third position. Ray Smith and Jennie Saffell won high scratch series for men and women this week. Smith had a 553; Saffell had a 518.

Energy tips...

Don't use too much detergent when you are running your washing machine. Follow instructions on the box. Oversudsing makes your machine work harder and use more energy.

Deadhorse Lake...

The Deadhorse Lake Golf League has ended with Huber/Mustaleski/Watson winning first place with 57 wins. Perez/Vaughn/Charles won second place with 52 wins. Marrow/Kovach/Peterson won third place with 50 wins. Congratulations to the winners!

South Hills...Monday

Bob Walker and Perry Bullard lead the Monday Night South Hills Golf League by two points. Clarence Johnson and J. R. Montgomery are tied with John Waggoner and Ed Hensley for second position.

South Hills...Thursday

Jerry Greer and Leonard Nance have a three-point lead in the Thursday Night South Hills Golf League with 52 wins. Earl Smith and Ed Sise are tied with Fred Mundt and Ben Bailey for second with 49 wins.

patents granted...

To Henry D. Cochran Jr., ORNL, for "Method of Measuring the Mass Flow Rate of a Substance Entering a Cocurrent Fluid Stream."

To Robert L. Ludwig, Y-12 Plant, for "Ductile Tungsten-Nickel Alloy and Method for Manufacturing."

To Wesley E. Smith and Bradley Napier Jr., both of the Y-12 Plant, for "Method for Reproducibly Preparing a Low-Melting High-Carbon Yield Precursor."

anniversaries...

(Continued from page 6)

Y-12 PLANT

35 YEARS



Boring



Eager



Martin



Seagle

Thomas J. Boring, Research Services, came to Y-12 August 17, 1943, after serving in the U.S. Army. A native of Etowah, he attended Stair Tech, and lives at Route 17, Knoxville.

Margaret Holley Eager, a native of Clinton, is a graduate of Middle Tennessee State University, and works in Y-12's Laboratory Operations. She lives at 407 Eagle Bend Road, Clinton.

Marinelle Smith Martin, a native of Blount County, is in Y-12's Receiving Department. She came to Y-12 July 31, 1943. She and her husband, William H., live in Oliver Springs.

James P. Seagle, native of Loudon, is in Y-12's Materials Forming Department. He lives at 114 Kingsley Road, Oak Ridge.

30 YEARS

Virginia J. Boswell, Superintendent's Division; and Olen N. Shultz, Material Transfer and Packing.

25 YEARS

Willis F. Grigsby, Woodrow Jackson, Charles E. Irwin, William D. Langford, Raymond E. Seivers, Robert L. McIlwain, George A. Windle Jr. and J. E. Summers Jr.

20 YEARS

William E. Ramsey, Donald R. Vandergriff, Henry D. Witt, William L. Beals, Fred T. Beaver Jr., Roy M. Westcott and William F. Lecomte.

ORGDP

30 YEARS

Burl K. White, Engineering; William H. Byrd, Finance, Materials and Services; Willard E. Hobbs, Gaseous Diffusion Development.

25 YEARS

Hubert M. Hembree, Albert J. Naleppa Jr.

PADUCAH

25 YEARS

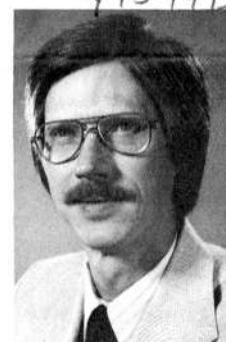
Jesse B. Tyner, James R. Champion, Herman E. Anderson and Glenn C. Vancil.

about people...



DEFENSIVE DRIVING course instructors demonstrate one of the many safety precautions—periodically cleaning car headlights—which are taught during the Nuclear Division in-house course. At left is Ed Howard, ORNL's Information Division, and T. L. Miller, Plant and Equipment Division.

Two ORNL divisions have achieved 100 percent enrollment in the Nuclear Division's defensive driving course. **Industrial Safety and Applied Health Physics** was the first division to achieve this mark, closely followed by the **Finance and Materials Division**. Eddie Robinson, Industrial Safety and Applied Health Physics, is coordinator of ORNL's defensive driving program.



Painter



Mynatt



Peelle



Perez

Gayle S. Painter, a member of the theory group in ORNL's Metals and Ceramics Division, has been elected a Fellow of the American Physical Society. His election recognizes contributions in the field of electronic structure of matter. Painter is currently engaged in theoretical research on the physical and chemical properties of surfaces.

Painter and his wife, June, reside at 19 Moore Lane, Oak Ridge. They have two daughters, Angela and Jennifer.

Three ORNL researchers have been named fellows of the American Nuclear Society in recognition of their acknowledged attainment in the nuclear field. They are: **Fred R. Mynatt**, program director for ORNL programs sponsored by the Nuclear Regulatory Commission; **Robert W. Peelle**, physicist and head of the section on nuclear data for fission reactors in the Engineering Physics Division; and **Rafael B. Perez**, research staff member in the Engineering Physics Division.

Mynatt was cited for development of methods for radiation shielding analysis and for demonstrating the cost effectiveness of these methods for reactor systems currently under development. Peelle was honored for contributions in nuclear instrument development, particularly for neutron time-of-flight measurements, and for producing data of high accuracy and lasting significance in several areas of nuclear technology. Perez was recognized for his contributions to neutron cross section measurements and interpretations, and for his development of neutron wave technique as a practical tool for neutron transport research.

Three ORNL staff members also have taken office as chairmen of ANS professional divisions for 1978-79. They are: **Thomas H. Row**, head of the environmental impact section in the Energy Division, as chairman of the ANS Environmental Sciences Division; **James H. Horak**, research staff member in the Metals and Ceramics Division, as chairman of the Materials Science and Technology Division; and **William B. Cottrell**, manager of the nuclear safety section in the Engineering Technology Section, as chairman of the Reactor Safety Division.

Newly named chairman-elect of the ANS Nuclear Fuel Cycle Division is **Raymond E. Blanco**, ORNL manager of nuclear waste management research and development and a member of the Chemical Technology Division.

Melroy named QA coordinator for ORGDP

Paul E. Melroy has been named ORGDP coordinator for Quality Assurance.

Melroy, a native of Sarasota, Fla., joined the Nuclear Division nearly 26 years ago after obtaining a BS degree in chemistry from the University of Florida. He also holds a MS degree in chemistry from the University of Tennessee. Most recently, Melroy headed the Manufacturing Department in the Barrier Division.

Melroy and his wife, Geneva, live at 113 Wildwood Drive, Oak Ridge, with their two sons, Roger and Owen.



Paul E. Melroy

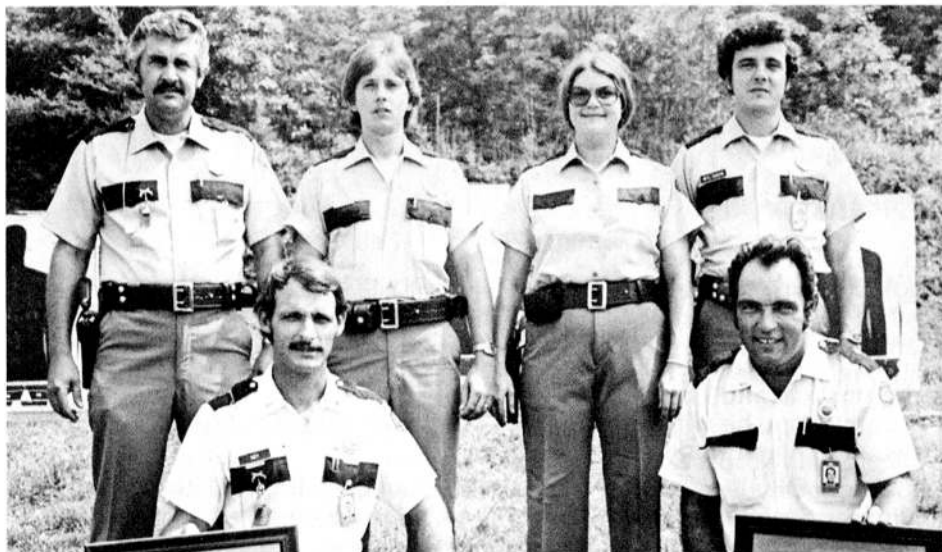
Corporate world of Union Carbide

A MAJOR DEVELOPMENT that promises to increase the capability to detect and diagnose many body disorders while reducing the cost per test has been announced by Union Carbide Corporation. The development, unveiled at the twenty-fifth annual meeting of the Society of Nuclear Medicine, is the nation's first commercially available radionuclide body function imager. It automatically and quickly provides three-dimensional, extremely detailed pictures of "slices" of the

organ under study. It employs sophisticated technology called reconstructed emission tomography, using radiopharmaceuticals injected into the patient to serve as the scanning agent.

The first unit will be installed at the National Institutes of Health at Bethesda, Md., for clinical trials. Two others are earmarked for shipment to hospitals in Europe. They are based on Union Carbide's successful radionuclide brain imager, the first of its kind, introduced last year. Six of these brain imagers are now in service. An unexpected use of the imager, as a whole body imager for newborn infants, has been safely demonstrated by a London hospital.

Division guards place high in Knoxville shooting match



DIVISION MARKSMEN—Among Nuclear Division pistol experts are, front row from left, Lieutenant Larry S. Key, Y-12, and Lieutenant Robert D. Allen, ORGDP. In the back row are Larry D. Jackson, ORNL; Douglas G. Nelson, ORGDP; Terri T. Littleton, ORGDP; and William C. Gheen, Y-12.

Nuclear Division security guards placed well during the recent Tennessee Law Enforcement Officers Association's annual shooting match in Knoxville. One member from each Oak Ridge plant went home with a trophy for outstanding shooting.

Douglas G. Nelson, ORGDP, placed second in the marksman classification with a score of 1440; William C. Gheen, Y-12, placed third in the expert classification with a score of 1438; and Larry D. Jackson, ORNL, placed third in the sharpshooter classification with a score of 1433. The maximum score for each was a possible 1500.

It was the first time that the Nuclear Division fielded a team, according to Lt. Robert D. Allen, ORGDP, who

acted as the team captain. Allen said team candidates have been practicing twice a week after regular hours and that some members went to the practice range early in the morning before reporting for work.

Allen expects the team, "Carbide Blue," to do better in future events. He points out that team members will change from time to time because the shooting skills of individual guards at the three plants will improve. He also notes that some guards have never been exposed to a competitive event and that it takes time to make the adjustments. But Allen looks forward to future events when the team will have had more experience under its belt.

division deaths...

E. Thomas Rose, a senior engineering assistant, Metals and Ceramics Division at ORNL, died July 24 at his Oak Ridge home. He joined Union Carbide in 1960 at the Y-12 Plant, transferring to ORNL in 1974.

Survivors include his wife, Linda Everett Rose; two sons, David and Doug; and a daughter, Lynn; brother, William; and sisters Clara Lukens and Glenda Ezell.

Services were held at Weatherford Chapel, with burial in Anderson Memorial Gardens.

The family has requested that memorials be in the form of gifts to Trinity United Methodist Church, Oak Ridge.



Mr. Rose

Car pool...

ORGDP

RIDE or JOIN CAR POOL from Oxmoor Hills, Karns, to Portal 4, straight days. Ralph H. Ford Jr., plant phone 3-3073, home phone 947-9222.

Safety honors

(Continued from page 1)

experience. "This remarkable record is the second best in the history of ORO," Hart pointed out. "And ORNL set an all-time record for itself in working more than 8,000,000 employee-hours without a serious mishap. This was achieved at a difficult time, too," he added, "when there was an increase in employment and the added hazards that go with a lot of new construction."

Individuals cited

The National Safety Council's awards were presented by Hibbs, who gave the three Oak Ridge plants the NSC's Award of Honor, its highest award, and to the Paducah Plant NSC's Award of Merit for working 1,680,318 hours without a disabling injury.

"These awards belong to all employees in our four facilities," Hibbs said. "Without the positive attitudes of each employee regarding the safety performance on the job, we would not be here today."

Ulysses E. Williams Sr., a carpenter in Y-12's Maintenance Division, died August 1 in a Knoxville hospital. He joined Union Carbide in 1972 at ORGDP, later transferring to Y-12. He had previously worked with Rust Engineering, Carmel Construction, Knoxville Utilities Board, Tennessee Valley Authority and Knoxville College, and was a veteran of the U.S. Navy.

Survivors include his wife, Geraldine B. Williams; step-mother, Eunice Sanders; sons, Eugene, Boyd and Anthony; daughters, Emerald Price, Maudie Raphael and Gloria Vanessa; sisters, Evelyn Watson and Buryle Dibrell; and brothers, Murrill and Melvin.

Funeral services were held at the Bush Grove Baptist Church, with interment in the Gillette Cemetery.



Mr. Williams

James D. Fultz, inspection supervisor in ORNL's Quality Assurance and Inspection Division, died August 7 at St. Mary's Hospital, Knoxville.

A native of Ashland, Ky., Mr. Fultz worked for Rust Engineering before joining Union Carbide in 1952. Survivors include his wife, Mary Bernice; a son James D. Jr.; and three daughters, Michalene, Christine and Deborah.


Funeral services were held at Weatherford Mortuary, Oak Ridge, with burial at Oak Ridge Memorial Park.



Mr. Fultz

The Nuclear Division's frequency rate was 0.28 for 1977, the second lowest in its history. There were 10 disabling injuries recorded last year: four at ORGDP, one at ORNL, two at Y-12, and three at Paducah.

Ralph Sawyer, a Paducah employee, was also recognized at the luncheon for his efforts in resuscitating fellow employee Roy Collins during a heart seizure (see accompanying story).



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